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(54) Modified nucleic acid probes

(57) Oligonucleotide analogue arrays attached to solid substrates and methods related to the use thereof are provided. The oligonucleotide analogues hybridize to nucleic acids with either higher or lower specificity than corresponding unmodified oligonucleotides. Target

nucleic acids which comprise nucleotide analogues are bound to oligonucleotide and oligonucleotide analogue arrays.

213 DNA target on 300nm/100nm 5'-mer polystyrene/oligonucleotide probes
(10 nM, 5x SSPE, 20°C-50°C, 90 min wait, bb4, 15pM)



Figure 1A

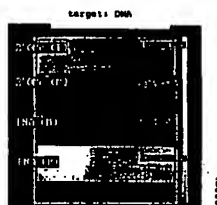
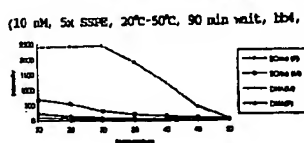


Figure 1B

100 target oligonucleotide on 300nm/100nm 5'-mer polystyrene/oligonucleotide probes
(10 nM, 5x SSPE, 20°C-50°C, 90 min wait, bb4, 15pM)



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